

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. **(Original)** A heat exchanger, in particular a coolant refrigerator or condenser for motor vehicles, with a soldered heat exchanger network consisting of flat tubes (2, 3) and of corrugated ribs (1), a liquid and/or gaseous medium being capable of flow through the flat tubes (2, 3) and air being capable of flow around the corrugated ribs (2), a corrugated rib (1) having in each case two rib surfaces (4, 5) which are arranged essentially parallel to one another and which are connected in each case by means of an arcuate piece (6) soldered to a flat tube (2, 3), **characterized** in that the arcuate piece (6) has a lower curvature in a middle portion (6a) than in a first outer portion (6b) and in a second outer portion (6c).
2. **(Original)** The heat exchanger as claim in claim 1, **characterized** in that the rib surfaces (4, 5) are equipped with gills (7).
3. **(Currently amended)** The heat exchanger as claimed in claim 1 ~~[[or 2]]~~, **characterized** in that the arcuate piece (6) has in the middle portion (6a) a radius of curvature R1 which is greater than a rib height RH of the corrugated rib (1).
4. **(Currently amended)** The heat exchanger as claimed in ~~one of claims 1 to 3~~ claim 1, **characterized** in that the arcuate piece (6) has in the first outer portion (6b) a radius of curvature R2 which is lower than half a rib height RH of the corrugated rib (1).
5. **(Currently amended)** The heat exchanger as claimed in ~~one of claims 1 to 4~~ claim 1, **characterized** in that the arcuate piece (6) has in the second outer portion (6c) a radius of curvature R3 which is greater than or equal to a radius of curvature

R2 in the first outer portion (6b).

6. **(Currently amended)** The heat exchanger as claimed in ~~one of claims 1 to 5~~
claim 1, **characterized** in that the arcuate piece (6) has in the second outer portion
(6c) a radius of curvature R3 which is lower than a rib height RH of the corrugated
rib (1).

7. **(Currently amended)** The heat exchanger as claimed in ~~one of claims 2 to 6~~
claim 2, **characterized** in that the gills (7, 7a, 7c) have a gill depth LP in a range of
0.5 to 1.5 mm and a gill angle α in the range of 20° to 35°.

8. **(Currently amended)** The heat exchanger as claimed in ~~one of claims 1 to 7~~
claim 1, **characterized** in that the corrugated rib (1) has a rib division FP in the
range of 1 to 3 mm.

9. **(Currently amended)** The heat exchanger as claimed in ~~one of claims 1 to 8~~
claim 1, **characterized** in that the corrugated rib (1) has a rib depth RT in the range
of 10 to 70 mm, preferably 12 to 20 mm or 40 to 64 mm.

10. **(Currently amended)** The heat exchanger as claimed in ~~one of claims 2 to 9~~
claim 2, **characterized** in that the ratio of gill depth LP to rib division FP is in a range
of 0.385 to 0.825.

11. **(Currently amended)** The heat exchanger as claimed in ~~one of claims 1 to 10~~
claim 1, **characterized** in that the corrugated rib (1) has a rib height RH in a
range of 3 to 15 mm, preferably 6 to 10 mm.